

Request for Approval to Amend Drawings

Under 37 C.F.R. §1.121

Applicant proposes to delete reference box number 630 in Figure 6.

Accordingly, Applicant has included in a separate letter a red-lined drawing reflecting the proposed changes and a replacement formal drawing. No new matter has been added. The Examiner's approval is respectfully requested for the proposed change to Figure 6.

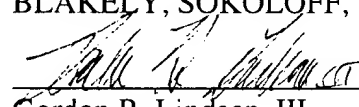
REMARK

Entry of the above-listed amendment is respectfully requested. It is respectfully submitted that no new matter has been introduced by this preliminary amendment.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: 2/13/2


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**FIRST CLASS CERTIFICATE OF MAILING
(37 C.F.R. § 1.8 (a))**

I hereby certify that this correspondence was deposited
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_____ Elements, Washington, DC 20231.

February 13, 2002
Date of Deposit

Gordon R. Lindeen, III
Name of Person Mailing Correspondence

Gordon R. Lindeen, III
Signature

2/13/2
Date

Marked Version to Show Changes Made
Insertions are underlined and deletions stricken.

In the specification:

Please delete the paragraph beginning on page 6, line 8 and insert the following paragraph:

A set of spatial multiplexing weights for each subscriber station are applied to the respective modulated signals to produce spatially multiplexed signals to be transmitted by the bank of four antennas. The host DSP 231 produces and maintains spatial signatures for each subscriber station for each conventional channel and calculates spatial multiplexing and demultiplexing weights using received signal measurements. In this manner, the signals from the current active subscriber stations, some of which may be active on the same conventional channel, are separated and interference and noise suppressed. When communicating from the base station to the subscriber stations, an optimized multi-lobe antenna radiation pattern tailored to the current active subscriber station connections and interference situation is created. ~~The same spatial signature is applied to signals received from the user terminal by the base station in order to resolve simultaneous signals on the same channel.~~ Suitable smart antenna technologies for achieving such a spatially directed beam are described, for example, in U.S. Patents Nos. 5,828,658, issued Oct. 27, 1998 to Ottersten et al. and 5,642,353, issued June 24, 1997 to Roy, III et al.

Please delete the paragraph beginning on page 27, line 23 and insert the following paragraph:

When the absolute timing is known, the entire training sequence can be identified. Accordingly a new weight vector calculation can be made using the entire training

sequence including the marker sequence 624. This redetermined weight vector is still more accurate because of the larger number of samples that can be used. It is applied to the stored measurements to again convert the measurements from each antenna channel into a single channel 626. With the new single channel, the CR burst is demodulated and read 628. ~~The redetermined weight vector is also used to send a CM (configuration message) burst or other traffic back to the user terminal 630.~~

Please delete the paragraph beginning on page 28, line 4 and insert the following paragraph:

This processing structure yields accurate beamformer weights that can be used to receive the desired signal without determining perfect timing for the signal. ~~The beamformer weights can also be used to transmit a burst with appropriate spatial directionality and interference and noise suppression back towards the user terminal in the appropriate corresponding downlink slot.~~

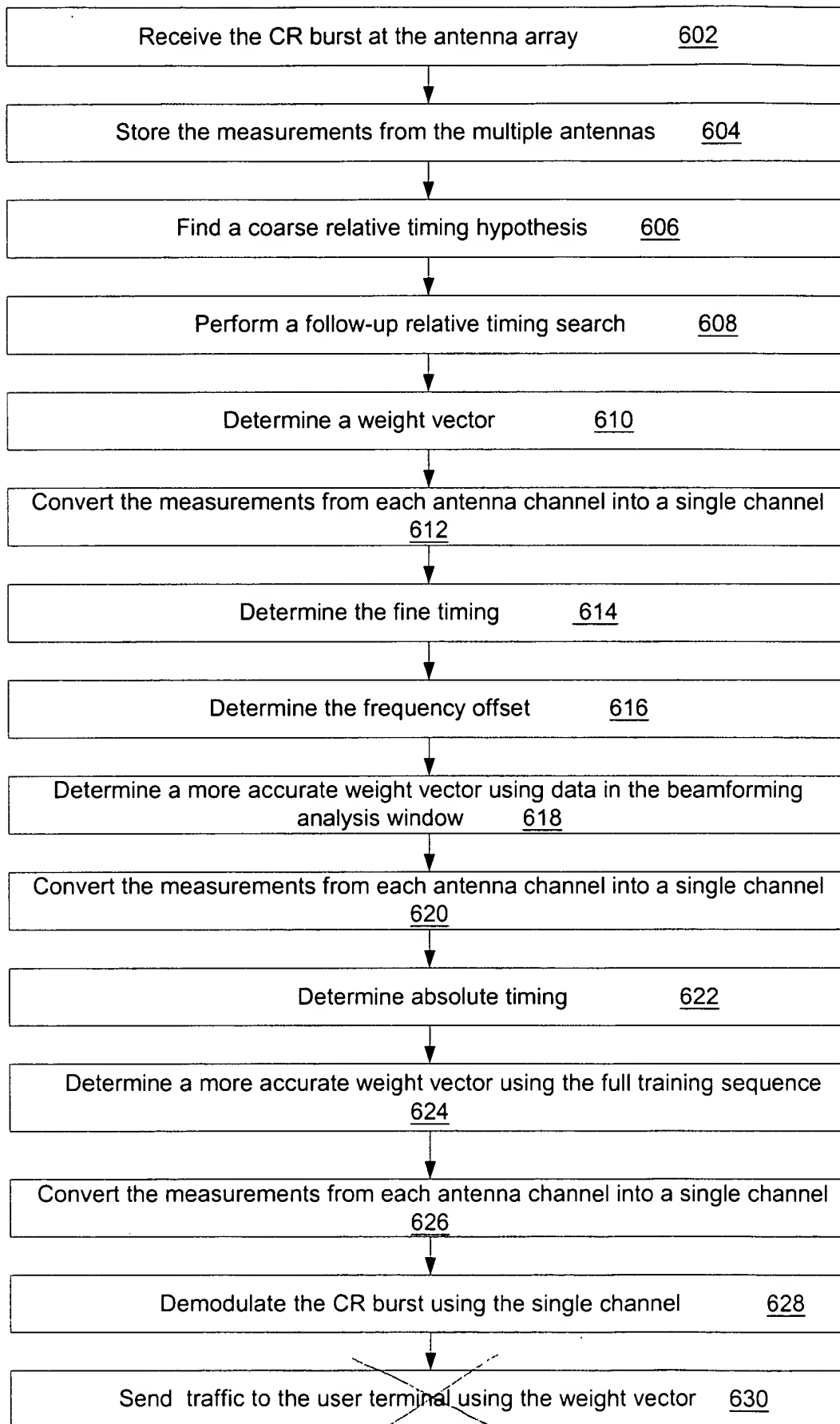


Figure 6